



*AWAP060-R2*

## **User's Manual**

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## **Unpacking Information**

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Thank you for purchasing ALFA Outdoor AP/CPE. Before you start, please check all the contents of this package.

The product package should include the following:

- 1. One AWAP060-R2**
- 2. One PoE power adapter**
- 3. One User Manual (CD)**
- 4. One Mounting kits**
- 5. One 12VDC Power Adapter**

## **General Description**

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Easily constructing your WLAN, this wireless Outdoor AP/CPE offers a wireless interface and eliminates to connect your wireless Internet provider.

With being compliant to IEEE 802.11g specification, this wireless Outdoor AP/CPE supports data rate up to 54Mbps and hence help to construct your high-speed wireless connection from your wireless internet provider.

This wireless Outdoor AP/CPE equips one POE RJ45 LAN port and one embedding 12dBi Panel antenna for you to easy to install and setup. The wireless security mechanism is provided over 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 and AES.

This device supports WEB-based user interface that helps users to configure this device easily.

## **Key Features**

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Complies with IEEE 802.11b/g wireless standards

High speed transfer data rate up to 54Mbps

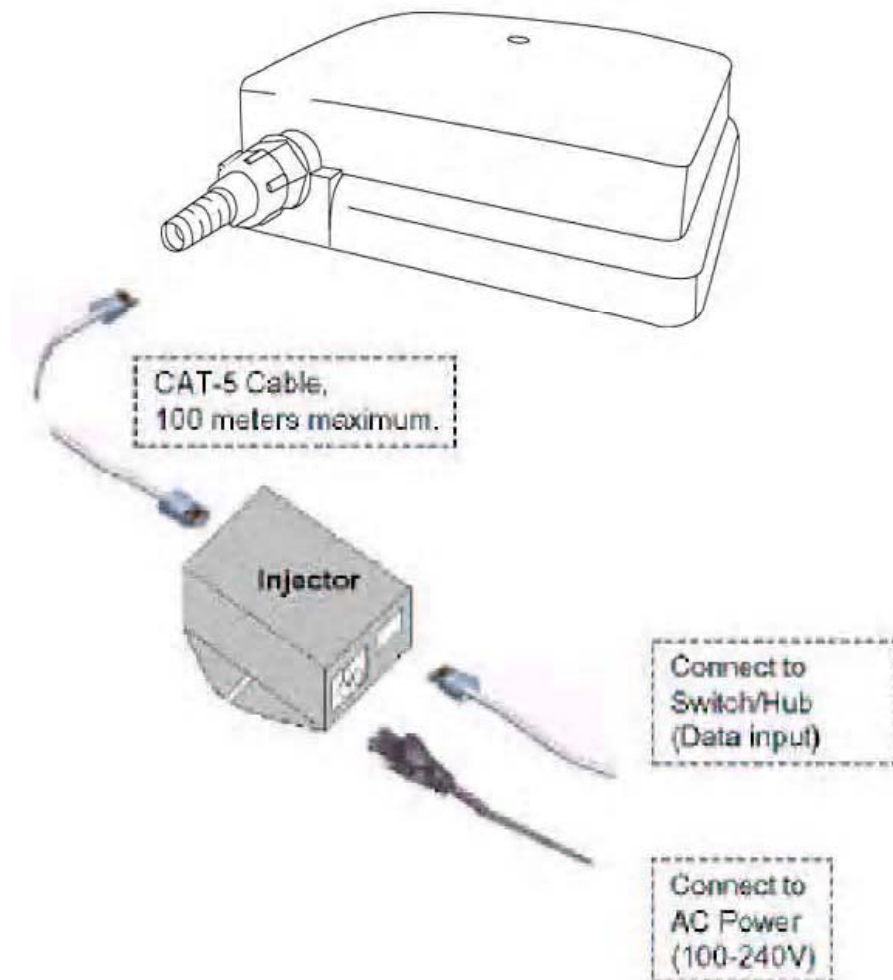
Supports turbo mode for 72Mbps data transfer

Supports wireless data encryption with 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 and AES functions

## **Connecting Outdoor AP/CPE to Your Network.**

This AWAP06O-R2 provides a step-by-step guide to the installation and configuration of this wireless Outdoor AP/CPE

Use RJ45 cable to connect Outdoor AP/CPE POE port and the other end connect to the APOE02 , the APOE02 connect to the Notebook or PC. And 12VDC Power Adapter. To get the signal from the Wireless Internet Provider.



# Management

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## Configuring the IP address of your computer

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In order to manage with this Wireless Outdoor AP/CPE, you have to configure the IP addresses of your computer to be compatible with this device.

**Note:**

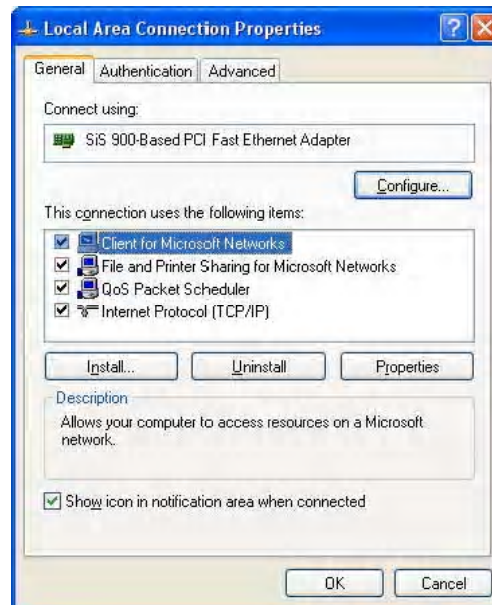
1. The default network setting of the device:  
**IP address:** 192.168.1.1  
**Subnet Mask:** 255.255.255.0  
**Default Gateway:** 192.168.1.254
2. In the following TCP/IP configuration guide, the IP address "192.168.1.2 " is assumed to be your IP address. Please **DO NOT** choose 192.168.1.1 for the IP address (192.168.1.1) has been set as the default IP for this device.
3. The following TCP/IP configuration guide uses windows XP as the presumed operation system.

### Procedures to configure IP addresses for your computer

1. If you are in Classic Start menu view, click **Start Settings Control Panel Network Connections**.  
If you are in Start menu view, click **Start Control Panel Network Connections**.
2. Double click "**Local Area Connection**"



3. Choose **Internet Protocol (TCP/IP)** and click **Properties**.



4. Choose "Use the following IP address" to specify IP addresses manually. Fill in the IP addresses in each column. Please click the OK button after your configuration.



## Starting the WEB-Based Management Interface

The device uses WEB as the management interface. You can use a browser to access the management interface easily. Please follow up the steps listed below.

1. Double click the Internet WEB browser icon on your desktop screen (Netscape Outdoor AP/CPE Communicator 4.0 and Internet Explorer 3.0 or update version)
2. Type 192.168.1.1 into the URL WEB address location and press Enter.



3. The Username and Password Required window Outdoor AP/CPE appears.  
Enter **admin** in the User Name location (default value).  
Enter **admin** in the Password location (default value).  
Click **"OK"** button





## The GrOutdoor AP/CPEhc User Interface

After the password authorization, the Setup Wizard shows up as the home page of the GrOutdoor AP/CPEhc User interface. You may click on each folder on left column of each page to get access to each configuration page.



**ALFA NETWORK** 802.11g 54Mbps Wireless Access Point

**STATUS**

This page shows the current status and some basic settings of the device.

SYSTEM	
Uptime	0:00:06.000.00
Firmware Version	v1.1.1

Wireless Configuration	
Mode	Infrastructure Client
Band	2.4 GHz (802.11g)
SSID	WLAN-11g-8P
Channel Number	1
Encryption	Disabled
BSSID	AB02:00:17:50:00:00
State	Connected

LAN Configuration	
Assign IP Protocol	Static IP
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
MAC Address	00:00:11:00:00:01

## Status

The Status page shows the following information of the device.

Items	Information
Uptime	The period that you turn the device on.
Firmware version	The current firmware version of the device.
Mode	Shows if the device is operating in client.
Band	The band that the wireless client operating.
SSID	The name of this wireless network.
Channel Number	The channel that the wireless network using.
Encryption	The security encryption type that the wireless network using.
BSSID	The Basic Service Set Identity of this OUTDOOR AP/CPE (This parameter is the same as the MAC address of LAN port)
Attain IP Protocol	The way for this client to get a IP address.
IP Address	The current IP address of this client
Subnet Mask	The current subnet mask of this client
Default Gateway	The current default gateway of this client
MAC Address	The current MAC address of this client

### Status

This page shows the current status and some basic settings of the device.

SYSTEM	
Uptime	Today 0h:12m:25s
Firmware Version	v1.0
Wireless Configuration	
Mode	AP+WDS
Band	2.4 GHz (B+G)
SSID	WLAN-11g-AP
Channel Number	1
Encryption	Disabled(AP), Disabled(WDS)
BSSID	00:80:7d:d0:c7:d1
Associated Clients	0
LAN Configuration	
Attain IP Protocol	Static IP
IP Address	10.10.99.146
Subnet Mask	255.255.255.0
Default Gateway	10.10.99.254
MAC Address	00:80:7d:d0:c7:d1

## LAN Interface Setup

This page allows users to configure the LAN network settings.

**LAN Interface Setup**

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.254

DHCP Server: Disabled

DHCP Client Range: 192.168.1.100 - 192.168.1.200 [Show Client](#)

DNS Server:

Domain Name:

802.1d Spanning Tree: Disabled

Clone MAC Address: 000000000000

[Apply Changes](#) [Reset](#)

### Configuration

<b>IP address</b>	The IP of Outdoor AP/CPE LAN port (Default 192.168.1.1)
<b>Subnet Mask</b>	Subnet Mask of you LAN (Default 255.255.255.0)
<b>Default Gateway</b>	The default gateway of this OUTDOOR AP/CPE.
<b>DHCP Server</b>	Select <b>"Enable"</b> to enable the DHCP server, which gives your LAN Client an IP.
<b>DHCP Client Range</b>	Specify the DHCP Client IP address range. You can also click the "Show Client" button to list those connected DHCP clients.
<b>DNS Server</b>	The DNS (domain name server) of this OUTDOOR AP/CPE.
<b>Domain Name</b>	The name that the OUTDOOR AP/CPE is going to be recognized in LAN.
<b>802.1d Spanning tree</b>	To prevent from network loops and preserve the quality of bridged network
<b>Clone MAC Address</b>	MAC cloning feature allows the MAC address reported by WAN side network interface card to be set to the MAC address already registered with the ISP eliminating the need to register the new MAC address with the ISP. This feature does not change the actual MAC address on the NIC, but instead changes the MAC address reported by this device to client requests. To Change the MAC address, enter it in the text box.

## ***System Log***

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This System Log page shows the information of the current activities on the OUTDOOR AP/CPE.

To enable system log function:

1. Mark the "Enable Log" checkbox.
2. To see all information of the system, select the "system all" checkbox.  
To see wireless information only, select the "wireless" checkbox.  
To send the log information to a certain note, select the "Enable Remote Log" checkbox and fill in the IP address in the "Log Server IP Address" box.
3. Click the "Outdoor AP/CPEply Changes" button to activate

You could also click the "Refresh" button to refresh the log information or click the "clear" button to clean the log table.

The screenshot shows a web interface titled "System Log" in yellow text. Below the title, a line of text reads: "This page can be used to set remote log server and show the system log." Below this, there are four checkboxes: "Enable Log", "system all", "wireless", and "Enable Remote Log". To the right of these checkboxes is a text input field labeled "Log Server IP Address:" and a label "Server Port: 514". Below the checkboxes is a button labeled "Apply Changes". Below the button is a large, empty rectangular area with a vertical scrollbar on the right side, intended for displaying log entries. At the bottom left of the page are two buttons: "Refresh" and "Clear".

## ***Password Setup***

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This page allows users to configure the username and password for getting accessed to this WEB based user interface.

To change the username/password, please fill in the username, New password and click the "Outdoor AP/CPEply Changes" button after confirming the password.

You may also cancel the password authentication by leaving those blanks empty then clicking the "Outdoor AP/CPEply Changes" button.

**Password Setup**

This page is used to set the account to access the web server of Access Point. Empty user name and password will disable the protection.

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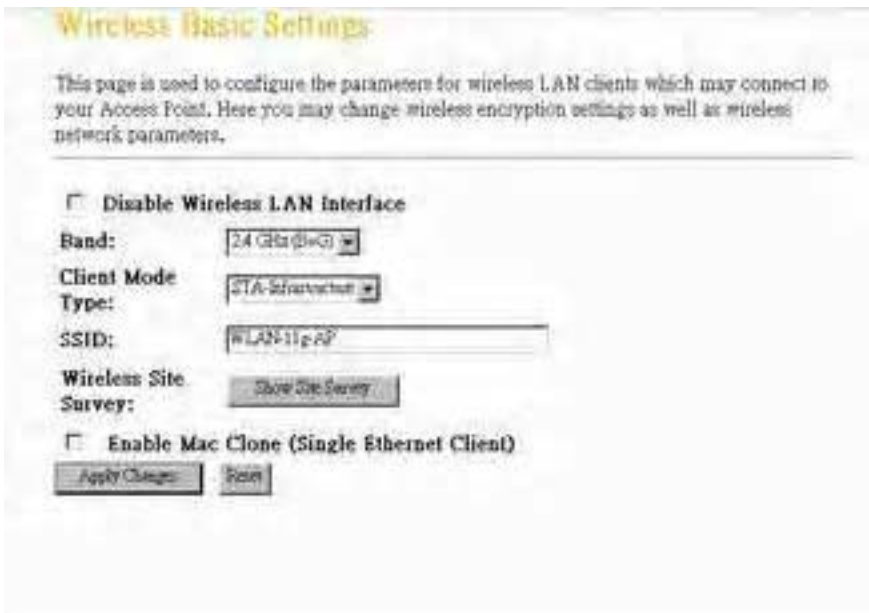
**User Name:**

**New Password:**

**Confirmed Password:**

# Basic Settings

This page provides setting up the wireless configuration and monitoring the Wireless Clients that associate with this OUTDOOR AP/CPE.



## Configuration

<b>Disable Wireless LAN Interface</b>	To Disable interface of Wireless LAN
<b>Band</b>	To select a band for this device to match 802.11b, 802.11g or both.
<b>CLIENT Mode Type</b>	Configure this device as OUTDOOR AP/CPE, Infrastructure or Ad-Hoc.
<b>SSID</b>	The name of the wireless network
<b>Wireless Site Survey</b>	Click the "Show Site Survey" button, then an " Wireless Site Survey" will pop up. You can see the status of all wireless stations that are able to connecting

# Wireless Site Survey

This is the window that pops up after clicking the “**wireless site survey**” button.



<b>SSID</b>	Show the all SSID of in range Access Point
<b>BISSID</b>	Show the Mac address of in range Access Point
<b>Channel</b>	The channel of in range Access Point active channel
<b>Type</b>	The type of AP
<b>Encrypt</b>	Encrypt method of in range Access Point
<b>Signal</b>	Signal strength of in range Access Point
<b>Select</b>	Select in range Access Point to connect

## Advanced Settings

You can set advanced wireless LAN parameters of this OUTDOOR AP/CPE. The parameters include Authentication Type, Fragment Threshold, RTS Threshold, Beacon Interval, Data Rate, Preamble Type, Broadcast SSID, IOUDDOOR AP/CPEP and 802.11g Protection.

**Wireless Advanced Settings**

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

Authentication Type:	<input type="radio"/> Open System	<input type="radio"/> Shared Key	<input checked="" type="radio"/> Auto
Fragment Threshold:	<input type="text" value="2346"/>	(256-2346)	
RTS Threshold:	<input type="text" value="2347"/>	(0-2347)	
Beacon Interval:	<input type="text" value="100"/>	(20-1024 ms)	
Data Rate:	<input type="text" value="Auto"/>		
Preamble Type:	<input checked="" type="radio"/> Long Preamble	<input type="radio"/> Short Preamble	
Broadcast SSID:	<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled	
IAPP:	<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled	
802.11g Protection:	<input type="radio"/> Enabled	<input checked="" type="radio"/> Disabled	
RF Output Power:	<input checked="" type="radio"/> 100%	<input type="radio"/> 50%	<input type="radio"/> 25% <input type="radio"/> 10% <input type="radio"/> 5%
Turbo Mode:	<input type="radio"/> Auto	<input type="radio"/> Always	<input checked="" type="radio"/> Off

## Configuration

Authentication Type	Open System mode	Allow communication with no security.
	Shared Key mode	Allow communication with devices with the same WEP key only.
	Auto	The wireless client can associate with this OUTDOOR AP/CPE by using any one of these two Modes.



<b>Fragment Threshold</b>	To specifies the maximum size of packet during the data transition. The lower values you set, the worst performance it will be.
<b>RTS Threshold</b>	If the packet size is smaller the RTS threshold, the OUTDOOR AP/CPE will not send this packet by using the RTS/CTS mechanism.
<b>Beacon Interval</b>	The period of time how long a beacon is broadcasted.
<b>Data Rate</b>	The "Data Rate" is the data packets limitation this wireless OUTDOOR AP/CPE can transmit. The wireless OUTDOOR AP/CPE will use the highest possible selected transmission rate to transmit the data packets.
<b>Preamble Type</b>	It defines the length of CRC block in the frames during the wireless communication. "Short Preamble" is suitable for heavy traffic wireless network. "Long Preamble" provides much communication reliability
<b>Broadcast SSID</b>	If you enable "Broadcast SSID", every wireless station located within the coverage of this wireless OUTDOOR AP/CPE can discover this wireless OUTDOOR AP/CPE easily. If you are building a public wireless network, enabling this feature is recommended. Disabling "Broadcast SSID" can provide better security.
<b>IOUTDOOR AP/CPEP</b>	To enables multiple OUTDOOR AP/CPE to communicate and pass information regarding the location of associated Stations.
<b>802.11g Protection</b>	Some 802.11g wireless adOutdoor AP/CPeters support 802.11g protection, which allows the adOutdoor AP/CPeters searches for 802.11g singles only. Select the "Disabled" to disable supporting 802.11g protection or select "enable" to support this function.
<b>RF Output power</b>	Select the RF (Radio Frequency) power. The RF output power has positive correlation with signal strength.
<b>Turbo Mode</b>	Some of our wireless adOutdoor AP/CPeters supports turbo mode, which provides a better connection quality. Select "Always" to support turbo mode or select "off" to turn it off . Select "Auto" turns it on or off automatically.

# Security

At the page, you can set up the WEP, WPA Encryption to ensure the security of your Wireless. You will have to do different configurations to each encryption modes. Click on the Encryption drop list to select an encryption mode or select "Disabled" to transmitting data without encryption.

## WEP Encryption

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Encryption:

WEP

Key Length:

64-bit

Key Format:

Hex (10 characters)

Default Tx Key:

Key 1

Encryption Key 1:

XXXXXXXXXX

Encryption Key 2:

XXXXXXXXXX

Encryption Key 3:

XXXXXXXXXX

Encryption Key 4:

XXXXXXXXXX

☐ Use 802.1x Authentication

Apply Changes

Reset

## Configuration

Encryption	To enable WEP, WPA, WPA2 and WPA2 Mixed encryption modes, select the option in the drop list. If you select none, any data will be transmitted without Encryption and any station can access the OUTDOOR AP/CPE
Key Length	Select a key length as 64-bit or 128-bit.
Key Format	Select a key format as Hex or ASCII
Default Tx Key	Select a default key for transmitting data.
Use 802.1x Authentication	Mark this check box. Fill in the RADIUS server IP address, Port Number, and Password to enable 802.1x authentication.

Click **<Apply Change>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the OUTDOOR AP/CPE.

## WPA Encryption

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**Wireless Security Setup**

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

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Encryption:

WPA

WPA Cipher Suite:

☒ TKIP ☐ AES

WPA Authentication Mode:

☐ Enterprise (RADIUS) ☒ Personal (Pre-Shared Key)

Pre-Shared Key Format:

Passphrase

Pre-Shared Key:

Apply Changes

Reset

### Configuration

---

<b>Encryption</b>	To enable WEP, WPA, WPA2 and WPA2 Mixed encryption modes, select the option in the drop list. If you select none, any data will be transmitted without Encryption and any station can access the OUTDOOR AP/CPE.
<b>WPA Cipher Suite</b>	Select the WPA Cipher Suite to be TKIP or AES
<b>WPA Authentication Mode</b>	Select the WPA mode as "Enterprise (WPA-Radius)" or "Personal (Pre-Shared Key)".
<b>Pre-Shared key Format</b>	Click on the drop list to select an Pre-Shared Key Format as Passphrase or Hex
<b>Pre-shared Key</b>	Enter the Pre-shared Key according to the pre-shared key format you select.

---

Click **<Apply Change>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the OUTDOOR AP/CPE.

## WPA2 Encryption

### Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Encryption:	<input type="text" value="WPA2"/>
WPA2 Cipher Suite:	<input type="radio"/> TKIP <input checked="" type="radio"/> AES
WPA Authentication Mode:	<input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key)
Pre-Shared Key Format:	<input type="text" value="Passphrase"/>
Pre-Shared Key:	<input type="text"/>
<input type="button" value="Apply Changes"/> <input type="button" value="Reset"/>	

## Configuration

<b>Encryption</b>	To enable WEP, WPA, WPA2 and WPA2 Mixed encryption modes, select the option in the drop list. If you select none, any data will be transmitted without Encryption and any station can access the OUTDOOR AP/CPE.
<b>WPA2 Cipher Suite</b>	Select the WPA2 Cipher Suite to be TKIP or AES
<b>WPA Authentication Mode</b>	Select the WPA mode as "Enterprise (WPA-RADIUS)" or "Personal (Pre-Shared Key)".
<b>Pre-Shared key Format</b>	Click on the drop list to select an Pre-Shared Key Format as Passphrase or Hex
<b>Pre-shared Key</b>	Enter the Pre-shared Key according to the pre-shared key format you select.

Click **<Apply Change>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the OUTDOOR AP/CPE.

## WPA2 Mixed Encryption

**Wireless Security Setup**

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

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Encryption:

WPA2 Mixed ▾

WPA Cipher Suite:

☒ TKIP ☐ AES

WPA2 Cipher Suite:

☐ TKIP ☒ AES

WPA Authentication Mode:

☐ Enterprise (RADIUS) ☒ Personal (Pre-Shared Key)

Pre-Shared Key Format:

Passphrase ▾

Pre-Shared Key:

Apply Changes

Reset

### Configuration

<b>Encryption</b>	To enable WEP, WPA, WPA2 and WPA2 Mixed encryption modes, select the option in the drop list. If you select none, any data will be transmitted without Encryption and any station can access the OUTDOOR AP/CPE.
<b>WPA Cipher Suite</b>	Select the WPA Cipher Suite to be TKIP or AES
<b>WPA2 Cipher Suite</b>	Select the WPA2 Cipher Suite to be TKIP or AES
<b>WPA Authentication Mode</b>	Select the WPA mode as "Enterprise (WPA-Radius)" or "Personal (Pre-Shared Key)".
<b>Pre-Shared key Format</b>	Click on the drop list to select an Pre-Shared Key Format as Passphrase or Hex
<b>Pre-shared Key</b>	Enter the Pre-shared Key according to the pre-shared key format you select.

Click **<Apply Change>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the OUTDOOR AP/CPE.

To restrict the Number of Access authentication of Stations, Set up the control list in this page.

Wireless Access Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.

Wireless Access Control Mode:

Disable

MAC Address:

Comment:

Apply Changes

Reset

Current Access Control List:

MAC Address	Comment	Select
<div><div>Delete Selected</div><div>Delete All</div><div>Reset</div></div>		

Configuration

<b>Wireless Access Control Mode</b>	Click on the drop list to choose the access control mode. You may select "Allow listed" to allow those allowed MAC addresses or select "Deny Listed" to ban those MAC addresses from accessing to this device.
<b>MAC Address &amp; Comment</b>	To set up the Value of MAC Address & Comment; enter the MAC Address and Comment of station and click Outdoor AP/CPEApply Changes to save.
<b>Current Access Control list</b>	To Delete the station on the list, Click the check box in the select item and click the "Delete Selected". If you want to delete all stations on the list, click "Delete All" to remove all of them.

Click <Outdoor AP/CPEApply Change> button to save the above configurations. You can now configure other advance sections or start using the OUTDOOR AP/CPE.

## ***Statistics***

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On this page, you can monitor the sent & received packets counters of wireless, Ethernet LAN, and Ethernet WAN. To see the latest report, click refresh button.

### ***Statistics***

This page shows the packet counters for transmission and reception regarding to wireless and Ethernet networks.

Wireless LAN	<i>Sent Packets</i>	0
	<i>Received Packets</i>	0
Ethernet LAN	<i>Sent Packets</i>	545
	<i>Received Packets</i>	58009

Refresh

## ***Upgrade Firmware***

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To Upgrade Firmware,

<b>STEPS</b>
1. Click "browse.." button to select the firmware you want to upgrade.
2. Click Upload to start the upgrade process. Please don't close the WEB-browser and wait for the process to be completed.



<b>Upgrade Firmware</b>	
This page allows you upgrade the Access Point firmware to new version. Please note, do not power off the device during the upload because it may crash the system.	
<b>Select File:</b>	<input type="text"/> <input type="button" value="Browse..."/>
<input type="button" value="Upload"/>	<input type="button" value="Reset"/>



## ***Save and Reload Settings***

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To save setting to file, click "Save..." button.

To load setting from file,

1. Click "Browse..." on the to select the file
2. Click upload to start the process and wait for it to complete

To reset setting to Default, click the Reset button to start the process.

**Save/Reload Settings**

This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.

Save Settings to File:

Save...

Load Settings from File:

Browse...

Upload

Reset Settings to Default:

Reset

## ***Log out***

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Click the "Outdoor AP/CPEply Change" button to log out the system and save your changes simultaneously.

**Logout**

This page is used to logout.

Do you want to logout ?

Apply Change

## Product Specifications

<b>Standard</b>	IEEE802.3, 10BASE-T IEEE802.3u, 100BASE-TX IEEE802.3x full duplex operation and flow control IEEE802.11b wireless LAN infrastructure IEEE802.11g wireless LAN infrastructure
<b>Interface</b>	
<b>Cable Connections</b>	RJ-45 (10BASE-T): Category 3,4,5 UTP RJ-45 (100BASE-TX): Category 5 UTP
<b>Network Data Rate</b>	802.11b: 1, 2, 5.5 and 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps
<b>Transmission Mode</b>	Auto-Negotiation (Full-duplex, Half-duplex)
<b>Security</b>	64/128-bit WEP, WPA(TKIP with IEEE 802.1x), WPA2, AES
<b>Receiver Sensitivity</b>	54Mbps OFDM, 10%PER, -68dBm 11Mbps CCK, 10%PER, -86dBm 1Mbps BPSK, 10%PER, -93dBm
<b>Memory</b>	Flash : 2MB, SDRAM : 8MB
<b>Transmit Power</b>	23dBm
<b>Emission</b>	FCC CLASS B, CE
<b>Environmental</b>	Operating Temperature: 0° ~ 40°C (32° ~ 104°F) Storage Temperature: -10° ~ 70°C (-14° ~ 140°F) Humidity: 10 ~ 95% RH non-condensing
<b>Power Supply</b>	PoE 12VDC